

10th Anniversary

GENESIS
ADVANCED TECHNOLOGIES

Reference Amplifiers

The challenge of driving Genesis loudspeakers is that they are such excellent transducers that they highlight the quality (or expose the flaws) of the equipment up the chain - something that almost every published review of Genesis loudspeakers has mentioned. Hence, they demand a very well-designed and well-executed power amplifier.

A LEGACY OF EXCELLENCE AND MUSICALITY

In 2004, we developed a Limited Edition value-priced line of valve amplifiers as proof of concept that you did not need a megabuck and/or kilowatt amplifier to drive a pair of Genesis loudspeakers, they garnered rave reviews, and sold out quickly.

A new Genesis amplifier had to be better than those valve amplifiers in *all* aspects. The design brief was simple: a load invariant, high-current, wide-bandwidth amplifier that would allow the musical performance to come to life. In addition, the new amplifiers had to be capable of driving any model in the Genesis range, from the Genesis 7*petite* up to the towering flagship – the Genesis 1.

6moons reviewer Frederic Beudot described the Genesis Reference Amplifier as being able to “provide more power, more bass quality and quantity, more tonal exactitude, more relaxation, better reproduction of ambiances and soundstages far more credibly and engulfing than my [tube amp]

which is no slouch in these attributes.” Despite being a solid-state amplifier, the GR360 also delivered on the emotional content, hitting “*the deepest emotional chords of the music.*”

The Genesis Reference Amplifier challenges the *status quo* of music amplifiers by marrying the advantages of tube (imaging, soundstage, and portrayal of tonal colors) with solid state (control, dynamics and accuracy).

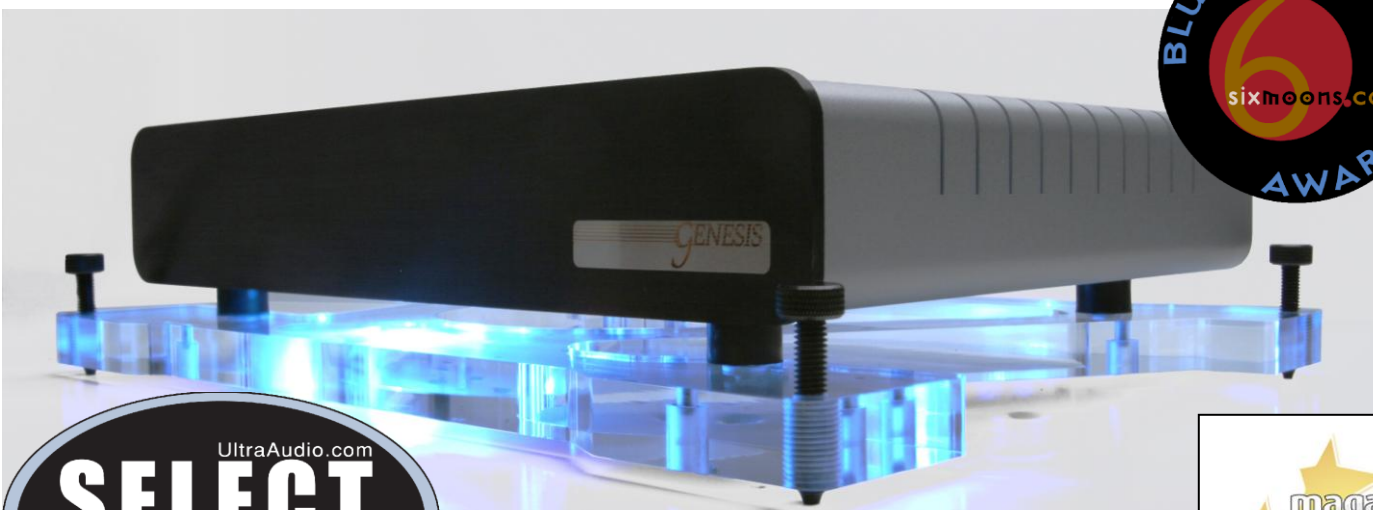
To achieve this, we had to develop some groundbreaking technologies.

DYNAMIC POWER DELIVERY SUPPLY (DPDS)

Traditional DC power supplies developed with established design principles are specified into a constant current draw with a resistive load.

However, except for Class A amplifiers (and Class AB at low power), the load is not linear. The power supply is hence specified for the maximum current drawn, but such a huge power supply is often slow.

The Genesis DPDS, on the other hand, is designed to deliver current into a non-linear, dynamic musical load, leading to a sense of *power with finesse*. The result is that the Genesis Reference Amplifier has the dynamics, extension and drive of high-powered transistor amplifiers without the muscle-bound sound, and the elegance, emotion and tonal colors of low-powered amplifiers without being weak or flaccid.



MAXIMUM DYNAMIC HEADROOM RESERVOIR

The MDHR is an add-on power supply upgrade that extends the ability of the DPDS. It allows the Genesis Reference Amplifier to drive harder and faster into lower impedance loads resulting in increased macro-dynamics, and more nuanced micro-dynamics. Mr Beudot says, “*the MDHR takes a great amplifier and turns it into one that belongs with that handful of truly amazing and exceptional electronics regardless of class, technology and price*” giving it the coveted Blue Moon Award.

SILENT RUNNING VOLTAGE SUPPLY

We recognized that published specifications for noise rejection of opamps and even discrete small-signal amplification circuits did not always tell the whole story. The truth is that PSRR is specified at one frequency – usually 1kHz, but the problem is that this rapidly gets worse as the frequency rises.

For the Genesis Reference Amplifier, a regulated voltage supply was developed that has *broad bandwidth noise rejection* so that RF noise coming in over power lines does not intrude on your music.

ACOUSTIC SUSPENSION SYSTEM

A dedicated suspension system isolates the Genesis Reference Amplifier from floor and structure-borne vibrations. Designed like the suspension system of a racecar, the acoustic suspension is made of a solid acrylic frame, neoprene shock absorbers, and steel spikes.

Other important features that have been include:

- A grounded Faraday Cage chassis for RFI and EMI rejection improves micro-dynamics and tonal colors and contrast.
- Outboard power transformer to stop mains radiation and vibrations from intruding into the amplifier chassis and signal path.
- Balanced components, in the push and the pull parts of the power supply, and having critical components toleranced to closer than +/- 1% results in a sense of *aliveness* and *ease* in the music.
- Special circuitry to “keep things warm” without wasting a lot of electricity means that your system is ready for you to listen to whenever you are.

ANNIVERSARY MONOBLOCKS

The ultimate expression of the Genesis Reference Amplifiers is the Anniversary Monoblock – released to celebrate the 10th Anniversary of Genesis Advanced Technologies. Capable of delivering up to 1440W into a pair of Genesis loudspeakers, and with an optional dedicated MDHR specially tuned for monoblock operation, the Anniversary Monoblocks + Anniversary MDHR is set to take musical amplification to the next level and beyond.



*1440W Anniversary Monoblock
with dedicated MDHR (top)*

SPECIFICATIONS

Genesis Advanced Technologies Reference Amplifier

Frequency Response	10Hz to 50kHz +0db/-3dB
Power Bandwidth	18Hz to 40kHz
Output Power @ 4 ohm	180,360, or 1440 watts
Distortion (20Hz to 40kHz)	0.015%
Input Impedance (balanced)	100k Ohm
Damping @ 4 ohm	2,000 min
Gain	26dB
Peak Output Current	limited to 20 amps after 40ms
Inputs	XLR or RCA (or both on Monoblocks)
Outputs	WBT-0708 NextGen™ or ETI CablePods™
Dimensions and Weight:s	
	Amplification module: 17.5" W x 3.5" H x 13" D, 23lb 445mm x 86mm x 330mm, 10.5kg
	Acoustic Suspension: 18.5" W x 1.5" H x 14" D, 5lb 470mm x 36mm x 356mm, 2.2kg
	Power module: 9" W x 4.5" H x 12" D, 32lb 228mm x 114mm x 228mm, 14.5kg

Optional: Maximum Dynamic Headroom Reservoir

*Specifications *may* change without notice

absolute fidelity™